

Product datasheet for **RG215308**

HGF (NM_001010933) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HGF (NM_001010933) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HGF
Synonyms: DFNB39; F-TCF; HGFb; HPTA; SF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG215308 representing NM_001010933
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCTGCAGCATGTCCTCCTGCATCTCCTCCTGCTCCCCA
TCGCCATCCCCTATGCAGAGGGACAAAGGAAAAGAAGAAATACAATTCATGAATCAAAAAATCAGCAA
GACTACCCTAATCAAAATAGATCCAGCACTGAAGATAAAAACCAAAAAAGTGAATACTGCAGACCAATGT
GCTAATAGATGTACTAGGAATAAAGGACTTCCATTCACCTGCAAGGCTTTTGTGTTTGTATAAAGCAAGAA
AACAAATGCCTCTGGTTCCCTTCAATAGCATGTCAAGTGGAGTAAAAAAGAATTTGGCCATGAATTTGA
CCTCTATGAAAACAAAGACTACATTAGAACTGCATCATTGGTAAAGGACGCAGCTACAAGGAACAGTA
TCTATCACTAAGAGTGGCATCAAATGTCAGCCCTGGAGTTCATGATACACACGAACACAGCTATCGGG
GTAAAGACCTACAGGAAAACCTACTGTCGAAATCCTCGAGGGGAAGAAGGGGGACCCTGGTGTTCACAAG
CAATCCAGAGGTACGCTACGAAGTCTGTGACATTCCTCAGTGTTCAGAAGTTGAATGCATGACCTGCAAT
GGGGAGAGTTATCGAGGTCTCATGGATCATACAGAATCAGGCAAGATTTGTCAGCGCTGGGATCATCAGA
CACCACACCGGCACAAATCTTGCCTGAAAGATATCCCGACAAGGGCTTTGATGATAATTATTGCCGCAA
TCCCGATGGCCAGCCGAGGCCATGGTGTATACTCTTGACCCTCACACCCGCTGGGAGTACTGTGAAT
AAAACATGCGAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215308 representing NM_001010933
 Red=Cloning site Green=Tags(s)

MWVTKLLPALLLQHVLLHLLLLPIAIPYAEGQRKRNTIHEFKSAKTTLIKIDPALKIKTKKVNTADQC
 ANRCTRNKGLPFTCKAFVFDKARKQCLWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTV
 SITKSGIKCQPWSSMIPHEHSYRGLQENYCRNPRGEEGGPWCF TSNPEVRYEVC DIPQCSEVECMTCN
 GESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFDDNYCRNPDGQPRPWCYTLDPHTRWEYCAI
 KT CET

TRTRPLE - GFP Tag - V

Restriction Sites:

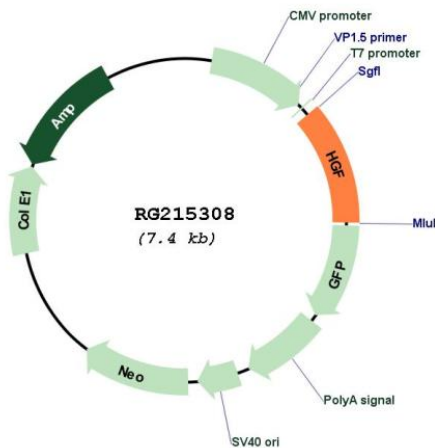
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001010933

ORF Size: 855 bp

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|-------------------------------|--|
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | NM_001010933.3 |
| RefSeq Size: | 1292 bp |
| RefSeq ORF: | 858 bp |
| Locus ID: | 3082 |
| UniProt ID: | P14210 |
| Cytogenetics: | 7q21.11 |
| Protein Families: | Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane |
| Protein Pathways: | Cytokine-cytokine receptor interaction, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma |
| Gene Summary: | This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss. [provided by RefSeq, Nov 2015] |